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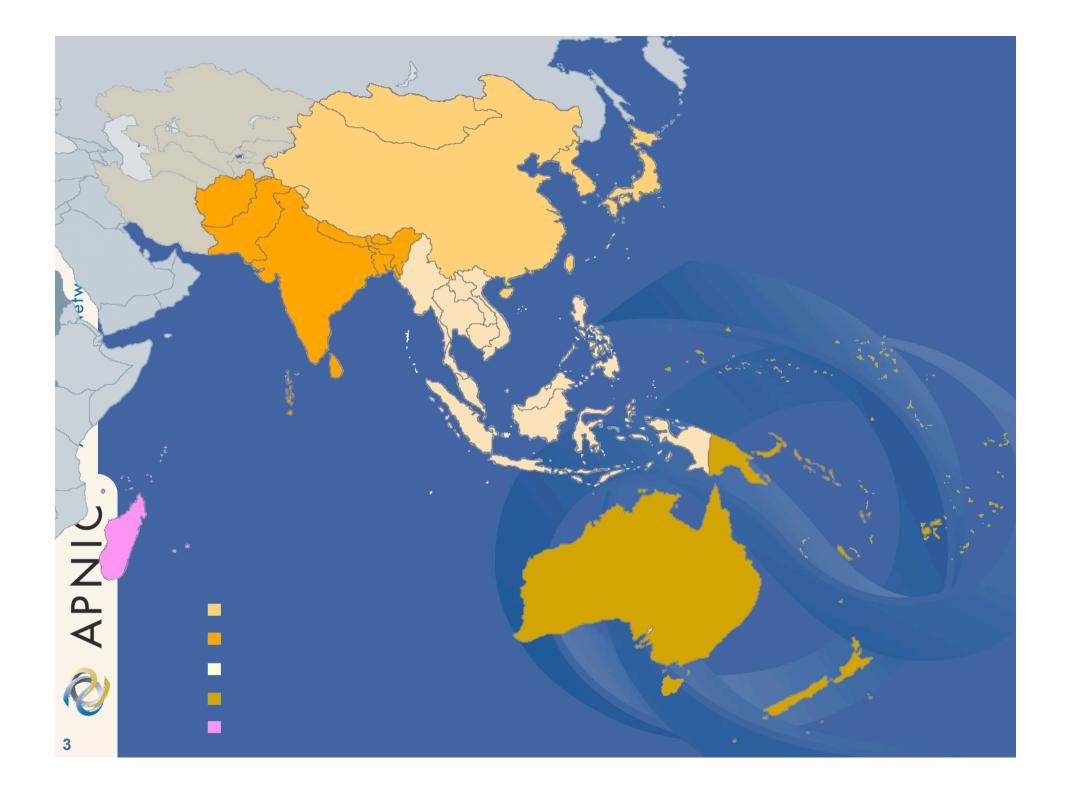
APNIC support for Internet development

APT/PITA Regional Meeting on ICT for the Pacific 25-27 August 2004, Nadi, Fiji

Paul Wilson pwilson@apnic.net

What is APNIC?

- Regional Internet Registry (RIR) for the Asia Pacific region
 - Regional authority for Internet resource distribution
 - One of four RIR currently operating globally
 - IP addresses (IPv4 and IPv6), AS numbers, reverse DNS delegation
 - Provide services to ~950 ISPs
- Industry self-regulatory body
 - Established in 1993
 - Consensus-based, open and transparent
 - Non-profit, neutral and independent
 - Open membership-based structure





Support for Internet development

- Core services
 - Critical infrastructure services
 - Policy coordination
- Other services
 - Training and education
 - Information resources
 - Technical support services
- Other activities
 - Development activities
 - Internet "governance"



Core APNIC services

Internet resource management

- IP address allocation to ISPs and NIRs
- IP address assignment to end users
- AS number assignments

Resource registration

- Authoritative registration server
 - whois.apnic.net
- Reverse DNS management
 - in-addr.arpa, ip6.arpa (ip6.int)

3. Policy coordination

- APNIC Open Policy Meetings: 2 per year
- ASO and ICANN processes (more later)



What is an IP address?

The Internet

DNS

www.temescn?



My Computer



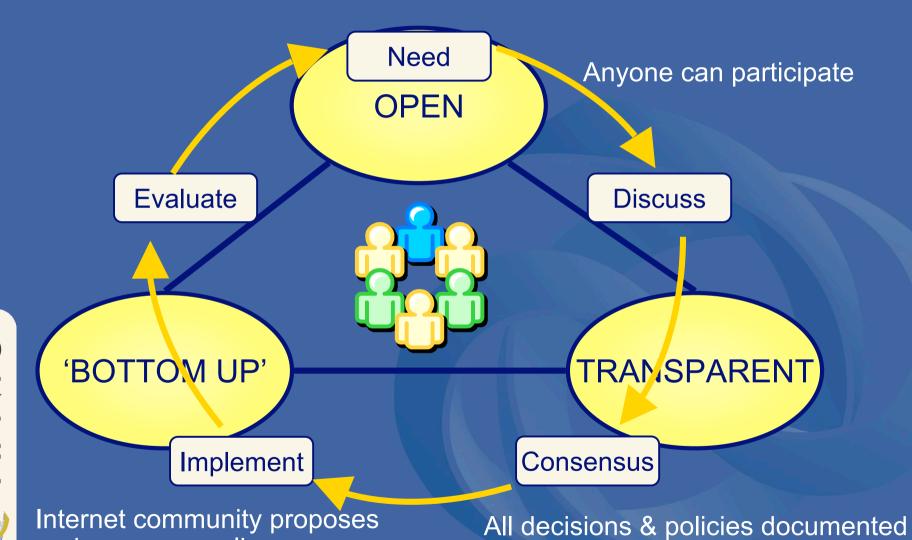
www.te2rle46n

What is an IP address?

- Internet infrastructure address
 - Globally unique*
- A finite common resource
 - IPv4: 32-bit number
 - e.g. 192.131.13.3
 - 4 billion addresses available
 - IPv6: 128-bit number
 - e.g. 3ffe:1a00:ff00::
 - Potentially*, equal to (IPv4)4
- IP does not mean "Intellectual Property"



APNIC Policy Process



& freely available to anyone

and approves policy



Training and Education

- Training tutorials and workshops
 - Target ISP technical staff
 - APNIC core responsibilities
 - Additional technical topics of interest to APNIC members
- Curriculum
 - Internet Resource Management I & II
 - Internet Routing Registry
 - DNS workshop
 - Routing workshop under development
- Partners sought to host
 - "Expression of Interest" may be submitted

Outreach and collaboration

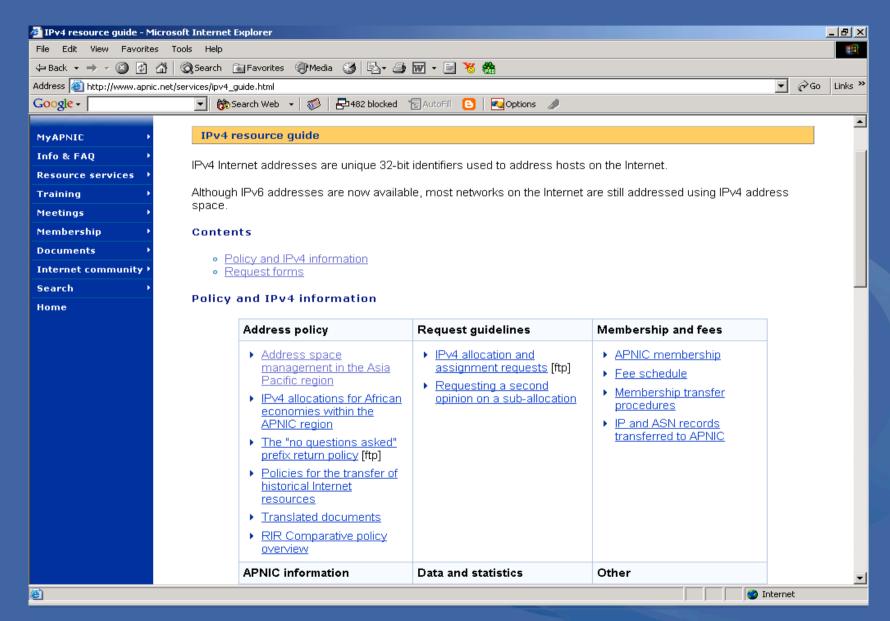
- RIR Coordination
 - ICANN process
 - NRO activities
- Participation at various forums
 - WSIS, ITU, APT, PITA, SANOG, APRICOT...
- MoUs signed between parties
 - PITA, SANOG, rootserver operators, others...



Information resources

- Helpdesk and resource guides
 - IPv4, IPv6, WHOIS database, ASNs
- Reports and statistics
 - Global statistical data on IP allocations
 - Annual reports, newsletter etc
- MyAPNIC
 - "All in one" secure management interface for members to manage relationship with APNIC
- ISP Support Resources
 - Public website currently under planning

IPv4 resource guide



Technical services

- Core technical services
 - Registration database (whois)
 - Reverse DNS (in-addr.arpa, ip6.arpa)
- Troubleshooting tools
 - "Looking glasses" to assist BGP debugging
 - APNIC Routing Registry
- MyAPNIC
 - Customer website for APNIC services
 - "All in one" secure management interface

Technical services

- Root server deployments
 - MoU's with root operators (F, I so far)
 - New host locations welcome (send EOI's)
 - More root servers now outside of the US



APNIC PoPs



- Reliable distributed services
 - AU, JP, HK
- Online services: reverse DNS, whois, www

Development support

- Research & Development
 - Partner in PAN ICT R&D grants programme
 - With UNDP, IDRC, AMIC, Microsoft
 - e.g. grant to PFnet
 - http://www.apdip.net/projects/ictrnd
- Funding assistance for fellowship and training
 - APNIC Fellowship Programme
 - APNIC Training Programme
 - APRICOT support and sponsorship
 - InfoDev (World Bank)
 - ITU



Internet "Governance"

- Active participation in ICANN process
 - Founding of Address Supporting Organisation (ASO)
 - Substantial funding (fee) input into ICANN
- Number Resource Organisation
 - Coalition of all RIRs
 - APNIC, ARIN, LACNIC, RIPE NCC
 - Independent from ICANN
 - For joint activities among RIRs
 - Technical services (in-addr.arpa, global whois etc)
 - Establishment of ASO with ICANN (by MoU)

Internet "Governance"

- Active participation in WSIS I and II
 - Since early 2003
 - Supporting ongoing evolution of "ICANN Model"
- "Open Regional Dialog and Capacity Building on Internet Governance"
 - Proposed project with UNDP/APDIP (KL) and IDRC (Ottawa/Singapore)
 - Development of Asia Pacific inputs into WSIS
 - WGIG in particular
 - Regional survey, resource website, and governance training

APNIC Open Policy Meeting

APNIC 18 Nadi, Fiji, 31 Aug- 3 Sep 2004



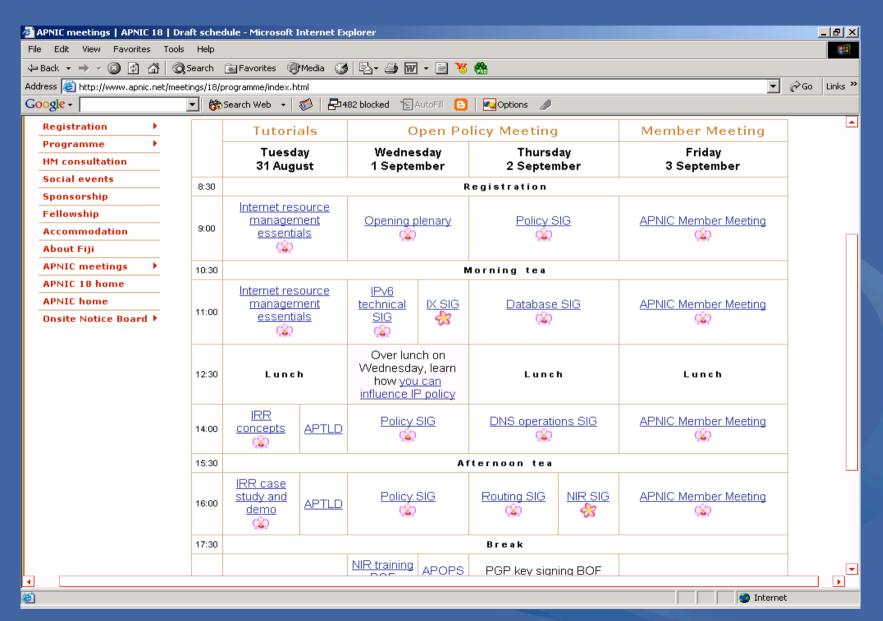


- Participate in policy development
- Attend workshops, tutorials & presentations
- Exchange knowledge and information with peers
- Stay abreast with developments in the Internet
- View multicast online
- Provide your input in matters important to you
- Fellowships Available

http://www.apnic.net/meetings/18



APNIC Open Policy Meeting



Special Invitation...

APNIC CEOs' Meeting Nadi, Fiji, 30 Aug 2004

- First ever APNIC event for CEOs and Snr Executives
- APNIC business and operating model
- Global issues affecting IP addressing
- Provide input into APNIC strategy and policy
- Networking with peers

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Thanks

Questions?

